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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/519,295	03/06/2000	Hallett H. Mathews	4002-2270	9015
7590	02/19/2004			EXAMINER
Kenneth A Gandy Woodard Emhart Naughton Moriarty & McNett Bank One Center/Tower 111 Monument Circle Suite 3700 Indianapolis, IN 46204-5137			WOO, JULIAN W	
			ART UNIT	PAPER NUMBER
			3731	16
DATE MAILED: 02/19/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Office Action Summary	Application No.	Applicant(s)
	09/519,295	MATHEWS, HALLETT H.
Examiner	Art Unit	
Julian W. Woo	3731	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 09 December 2003.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 22-46 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 30-46 is/are allowed.

6) Claim(s) 22-24, 26-28 is/are rejected.

7) Claim(s) 25, 29 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

2. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Morrison (3,486,505). Morrison discloses the invention substantially as claimed. Morrison discloses, in figures 1 and 2 and in col. 2, lines 10-69, a method for fixing adjacent vertebrae, where tissue is sequentially dilated with an incision and movement of an outer dilator with lateral guides (16) and arms (11) and fusing the adjacent vertebrae is performed with a material (bone graft, C). However, Morrison does not specifically disclose a number of dilators. Nevertheless, it would have been obvious to one having ordinary skill in the art at the time the invention was made to include a cutting instrument as another dilator with the outer dilator of Morrison. Such a cutting instrument would be used to perform the incision and initiate dilation of tissue.

3. Claims 22, 23, 24, and 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobson (4,545,374) in view of Ma et al. (3,848,601). Jacobson discloses the invention substantially as claimed, in figures 3-5 and in col. 5, line 45 to col. 11, line 49, a method for fixing adjacent vertebrae, where tissue is sequentially dilated with a number of dilators (8, 10, 11, 13) to provide access portals and discectomies are performed through the portals and where fixation instrumentation (33) is secured to adjacent vertebrae. However, Jacobson does not disclose fusing adjacent vertebrae with bone graft material introduced through the portals, and Jacobson does not disclose visualizing the disk space and the delivery of bone graft material through a second access portal. Ma et al. teach, in col. 1, lines 5-66, col. 5, lines 26-34, and col., 6, lines 50-54, the introduction of graft material through portals in dilated tissue and the visualization of the disk space and bone graft material through a portal (with the aid of a Penfield probe and X-ray film). It would have been obvious to one having ordinary skill in the art at the time the invention was made, in view of Ma et al., to introduce bone graft material into the portals created by the method of Jacobson, and it would have been obvious to visualize a portal and the bone graft material delivered through the portal. Bone graft material provides a well-known means for interbody fusion, and visualization of disk and the bone graft material through a portal allows assessment of the vertical height of the interspace between fused vertebrae.

Allowable Subject Matter

4. Claims 30-46 are allowed.
5. The following is an examiner's statement of reasons for allowance: None of the prior art of record, alone or in combination, discloses a surgical system with at least three dilators, each including a bore therethrough, at least one bone screw or bone graft material deliverable through the bore, and an elongated fixation element extendable between the adjacent vertebrae and engageable with a bone screw. The prior art of record also does not disclose a method for fixing adjacent vertebrae, where skin and tissue are sequentially dilated and adjacent vertebrae are fused with a material in a portal created by the dilated skin and tissue, where fixation instrumentation is secured to the pedicles of the adjacent vertebrae.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Claims 25 and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
7. The following is a statement of reasons for the indication of allowable subject matter: None of the prior art of record, alone or in combination, discloses a dilator system with three tubular dilators and a bone screw sized to be received in one of the dilators. The prior art of record also does not disclose a method for fixing adjacent

vertebrae, where skin and tissue are sequentially dilated and adjacent vertebrae are fused with a material in a portal created by the dilated skin and tissue, where fixation instrumentation is secured to the pedicles of the adjacent vertebrae, and where at least three dilator tubes are used to dilate the skin and tissue.

As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Response to Amendment

8. Applicant's arguments with respect to claims 22, 24, and 37-41 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian W. Woo whose telephone number is (703) 308-0421. The examiner can normally be reached Mon.-Fri., 7:00 AM to 3:00 PM Eastern Time, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Milano can be reached at (703) 308-2496.

General inquiries relating to the status of this application should be directed to the Group receptionist at (703) 308-0858. The official FAX number is (703) 872-9302.



Julian W. Woo
Primary Examiner

February 18, 2004